

The Nuclear Materials Management and Safeguards System (NMMSS)



2015 Annual
Users
Training
Meeting

Accuracy

Accountability

Performance



May 11-14, 2015

Las Vegas, NV

Programmatic Update – Nuclear Materials Landscape

Richard Meehan, Director
Office of Nuclear Material Integration (ONMI)
NNSA



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Purpose



NNSA



- Provide an update on range of programmatic activities focused on:
 - Nuclear materials management and integration
 - Decision-making needs and stakeholders
 - Recent NMMSS developments
- Highlight learning opportunities at NMMSS 2015

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ONMI Programmatic Focus



- Material management policy, plans, and expectations
- Analysis and integration of DOE/NNSA-wide nuclear materials requirements
- Integration of material needs to optimize allotment, consolidation, and disposition decisions
- Inventory, tracking, status, and whereabouts of nuclear materials

Encompasses the entire lifecycle of nuclear materials

Factors in key considerations such as Policy, Regulatory, International Agreements,
Fiscal and Budgetary, Mission, National Security



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Decision-making Needs and Stakeholders



NNSA



DOE/NNSA
Complex



Defense Programs

- Highly Enriched Uranium Inventories
- P&PD
- Tritium Modeling



Defense Nuclear Security

- Compliment NMC&A



Office of Nuclear Energy

- Current inventories
- Restricted use material



Non-Proliferation

- Compliance with Peaceful use Agreements for Nuclear Commerce



Office of Science

- Support laboratories & medical research efforts



Naval Propulsion

- Material inventory in support of Navy's mission



Environmental Management

- Public & worker health studies

Domestic



Nuclear Regulatory Commission

- Commercial Inventories
- Transaction Processing



Department of State

- Non-proliferation Compliance Monitoring



Department of Defense

- NWC Support

International



International Atomic Energy Agency

- Transit Matching



EURATOM

- Peaceful Use Obligation Management



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Update on Few NMMSS Relevant Developments



- Successful completion of preparation for and initiation of reporting to the IAEA in 20 years since a U.S. facility was last selected for safeguards reporting –
 - Louisiana Energy Services (LES) is also the first U.S. enrichment facility selected
- Greater collaboration with the IAEA to improve reporting processes related to imports and exports of nuclear material. Progress includes:
 - Implemented electronic data reporting to improve currency of U.S. data
 - Setup electronic mailbox to improve information sharing between IAEA and NMMSS analysts
- Improved reconciliation schedule
 - As of March 31, 2015, the year-to-year pace of reconciliation for NRC licensees had improved by 70%. The positive momentum continued through April and May
- Look to the future to address evolving global nuclear dynamics in era of increased reliance on nuclear energy



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Takeaways



- The NMMSS 2015 agenda is content-rich.
 - Numerous presentations and breakout sessions focused on issues that have direct impact on responsible management, safeguards, and stewardship of nuclear materials
 - Global perspective and analysis by distinguished group of invited speakers
 - Hands-on-training to facilitate and streamline nuclear material reporting processes
 - Opportunity to follow-up on and discuss facility-specific nuclear material issues
- The path of continuous improvement is dependent on sharing and disseminating lessons learned and experiences
 - Your active engagement is critical.

